| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/707,421              | BEDDARD ET AL.                          |
| Examiner                | Art Unit                                |
| Christopher Verdier     | 3745                                    |

| gh numeral)<br>ncelled | N | Non-Elected  | Α | Appeal   |
|------------------------|---|--------------|---|----------|
| stricted               | - | Interference | 0 | Objected |

| □      | Cla      | aim  | Date   |                        |          |                   |          | Claim Date |          |          |                 |  |      |                 |               | CI           | aim             | Date   |  |               |                |          |      |                 |               |                               |              |          |  |          |          |
|--|----------|--|--|------------------------|----------|-------------------|----------|------------|----------|----------|-----------------|--|------|-----------------|---------------|--------------|-----------------|--|--|---------------|----------------|----------|------|-----------------|---------------|-------------------------------|--------------|----------|--|----------|----------|
| 1     ①     =     51     101     102     102     3     4     =     64     103     103     3     4     =     64     104     4     5     =     105     5     6     104     4     4     5     =     105     5     6     7     6     6     7     5     56     106     6     6     7     108     108  | <u> </u> |  | 7  |                        |          | Ī                 | T        |            |          |          |                 | <del>                                     </del> |      | П               |               | Τ            |                 |  |  |               |                |          |      |                 |               |                               | <del></del>  |          |  |          | $\dashv$ |
| 1     ①     =     51     101     102     102     6     102     6     102     6     103     3     4     =     53     103     3     4     =     54     104     4     5     5     105     105     5     6     105     5     6     105     5     6     105     5     6     106     6     6     7     7     107     107     107     107     107     107     107     107     107     107     107     107     107     107     107     107     108     108     408   | ल        | na   | 7  |                        |          |                   |          |            |          |          | *****           | ्रज्ञ  | ina  |                 |               |              |                 |  |  |               |                | त्र      | ina  |                 |               |                               |              |          |  | ĺ        |          |
| 1     ①     =     51     101     102     102     3     4     =     64     103     103     3     4     =     64     104     4     5     =     105     5     6     104     4     4     5     =     105     5     6     7     6     6     7     5     56     106     6     6     7     108     108  | <u>₩</u> | ig.  | 7  |                        |          |                   |          |            |          |          |                 | 뜐  | rigi |                 |               |              |                 |  |  |               |                | Fin      | rigi |                 |               |                               |              |          |  |          | ]        |
| 1     (1) ⇒     101       2     2 =     52     102       3     4 ≈     53     103     104       4     5 =     55     105     105       5     6 =     56     106     6     6       6     7     57     107     7     7       7     8     58     108     9     9     109     9       4     10 ≈     60     110     111  |          | 0  | V3   |                        |          |                   |          |            |          |          |                 |  | 0    |                 |               |              |                 |  |  |               |                |          | 0    |                 |               | 1                             |              |          |  |          |          |
| 2   2  |          | 0  | =  | H                      |          |                   |          |            |          |          |                 |  | 51   |                 |               | 1            |                 |  |  |               | :::::          |          | 101  |                 |               | 1                             |              |          |  |          | $\neg$   |
| S  | 2        |  | =  |                        |          |                   |          |            |          |          |                 |  | 52   |                 |               |              |                 |  |  |               |                |          |      |                 |               | <b>†</b>                      |              |          |  |          |          |
| 3  |          | <del></del>  |  |                        |          |                   |          |            |          |          |                 |  | 53   |                 |               |              |                 |  |  |               |                |          |      |                 |               | 1                             |              |          |  |          | $\neg$   |
| \$\frac{4}{5} \frac{5}{6} = \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqquad \qqqqq \qqqq \qqqqq \qqqqqq   | 3        | 4  | =  |                        |          |                   |          |            |          |          | 7               |  | 54   |                 |               |              |                 |  |  |               |                |          |      |                 |               |                               |              |          |  |          |          |
| Se   | 4        | 5  | =  |                        |          |                   |          |            |          |          |                 |  | 55   |                 |               |              |                 |  |  |               |                |          | 105  |                 |               |                               |              |          |  |          |          |
| G. 7     7     8     7     8     107     7     8     108     108     108     108     108     108     109     4     10     11     10     11     10     11 <td< td=""><th>5</th><td>6</td><td>=</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>56</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>106</td><td></td><td></td><td>Ī</td><td></td><td></td><td></td><td></td><td><math>\Box</math></td></td<>   | 5        | 6  | =  |                        |          |                   |          |            |          |          |                 |  | 56   |                 |               |              |                 |  |  |               |                |          | 106  |                 |               | Ī                             |              |          |  |          | $\Box$   |
| 1     8     —     108     —     109     —     109     —     109     —     110     —     110     —     110     —     1110     —     1110     —     1110     —     1110     —     1110     —     1110     —     1110     —     1110     —     1111     —     66     —     1111     —     111     —     1111     —     1111     —     1111 <th>G</th> <td>7</td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>57</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>107</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | G        | 7  | <u> </u>   |                        |          |                   |          |            |          |          |                 |  | 57   |                 |               |              |                 |  |  |               |                |          | 107  |                 |               |                               |              |          |  |          |          |
| Q   9   59   109   109   100   100   100   110   110   110   110   110   110   110   110   110   111 | 7        | 8  | 11   |                        |          |                   |          |            |          |          | -               |  | 58   |                 |               |              |                 |  |  |               | :::::          |          | 108  |                 |               |                               |              |          |  |          |          |
| Q   10   | 8        | 9  | L  |                        |          |                   |          |            |          |          |                 |  | 59   |                 |               |              |                 |  |  |               | :::::          |          | 109  |                 |               |                               |              |          |  |          |          |
| 11   | 9        | 10   | =  |                        |          |                   |          |            |          |          |                 |  | 60   |                 |               |              |                 |  |  | 1             |                |          | 110  |                 |               |                               |              |          |  |          |          |
| 11 12 = 1  | 10       | 11   |  |                        |          |                   |          |            |          | ·        |                 |  |      |                 |               |              |                 |  |  |               |                |          | 111  |                 |               |                               |              |          |  |          |          |
| 1   13   | 11       |  | =  |                        |          |                   |          |            |          |          |                 |  |      |                 |               |              |                 |  |  |               |                |          |      |                 |               |                               |              |          |  | $\Box$   |          |
| 14   | 12       | <del>                                       </del> |  | Щ                      |          |                   |          |            |          |          |                 |  |      |                 |               |              |                 |  |  |               |                |          |      |                 |               |                               |              |          |  |          |          |
| 15   | 13       | <del>}</del>                                       |  | Щ                      |          |                   |          |            | $\bot$   |          | :::::           |  |      | Щ               |               |              | $\sqcup$        |  |  |               |                |          |      |                 |               |                               |              |          |  | [        |          |
| S   16   | 4        |  |  | $\square$              |          |                   |          |            |          |          |                 |  |      |                 |               | <u> </u>     |                 |  |  |               |                |          |      |                 |               |                               | ļ            |          | $\sqcup$   | $\perp$  |          |
|  |          |  |  |                        |          |                   |          | $\perp$    |          |          | _               |  |      |                 |               | <u> </u>     |                 | $\bot$   | $\downarrow \downarrow \downarrow$               |               |                |          |      | igsqcup         |               | <u> </u>                      | _            |          |  | $\dashv$ | $\Box$   |
| 16     19     =     69     119     120     120     121     121     121     121     121     121     121     121     121     121     122     122     123     123     123     123     123     123     123     123     123     123     123     124     124     124     125     125     125     125     125     125     126     127     127     127     127     127     127     127     127     128     129     129     129     129     129     129     130     130     130     131     131     131     132     132     133     132     133     132     133     133     134   |          | 1  |  |                        |          |                   |          |            |          |          |                 |  |      |                 |               |              |                 | _  | $\sqcup$   | $\overline{}$ | :::::          |          |      |                 |               |                               |              |          |  |          |          |
|  |          |  | ╄  |                        | i        |                   | _        | $\perp$    |          |          | :::::           |  |      | $\sqcup$        |               |              |                 |  |  |               |                |          |      |                 |               | <u> </u>                      |              |          |  |          |          |
| 120  |          | +  | <del></del>                                      |                        |          |                   |          | $\perp$    |          |          |                 |  |      |                 |               | _            |                 |  | <u> </u>   |               | ::::::         |          |      |                 |               | $oldsymbol{oldsymbol{\perp}}$ | ļ            | <u> </u> |  |          |          |
| 121  | 19       |  | >  |                        |          |                   | _        |            |          |          |                 |  |      | $\sqcup$        |               | —            |                 | _  | $\perp$  |               |                |          |      |                 |               | $\bot$                        |              |          |  |          |          |
| 22 72   23 73   24 74   25 76   26 76   27 77   28 78   29 79   30 80   31 81   32 82   33 132   33 83   34 84   35 85   36 86   37 87   38 136   37 87   38 138   39 139   40 90   41 91   42 92   44 94   44 94   44 94   45 96   46 96   47 97   148  |          | +  | <u> </u>   |                        |          |                   | _        |            | _        |          |                 | <u> </u>   |      | $\sqcup$        | $\perp$       | <del> </del> |                 | $\bot$   | $\sqcup$   |               |                |          |      |                 |               | _                             | 1            | ļ        |  |          |          |
| 124  |          |  |  |                        |          | ightharpoonup     |          |            | 4        |          |                 |  |      |                 |               |              |                 |  |  |               |                |          |      |                 |               | _                             |              |          |  |          |          |
| 25     75     125       26     76     126       27     77     127       28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     83     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147       48     98     148  |          | _  |  |                        |          |                   | _        | _          | _        | $\bot$   |                 |  |      |                 |               | <u> </u>     |                 |  | -  |               |                |          |      |                 |               | 4                             | <u> </u>     |          |  |          |          |
| 26     76     126     127     127     128     127     128     128     128     129     129     129     129     130     130     130     130     130     130     131     131     131     131     131     131     131     132     132     132     132     133     133     133     133     133     134     134     134     134     134     134     134     135     135     135     135     135     136     136     136     136     137     137     137     137     137     138     138     139     149     144     140     140     140     140     140     141     142     142     142  | ļ        | _  | <u> </u>   |                        |          |                   |          | _          |          | _ _      |                 |  |      |                 |               | <b>-</b>     |                 |  | -  |               |                |          |      |                 |               | -                             | <u> </u>     |          | $\Box$   | _        |          |
| 27     38     78     128     128     128     128     128     128     129     129     129     130     130     130     130     131     131     131     131     131     131     131     132     132     132     132     133     133     133     133     133     133     133     133     134     134     134     134     135     135     135     135     135     136     137     137     137     137     138     138     138     138     138     138     138     138     139     140     140     140     141     141     142     142     144     144     144     144     144     144     144     144     144     144     145     145     146     146     146     146     146     147     147     148     148     148     148     148     148     148     148     148     148     148     148     148   |          | <del></del>  | <u> </u>   |                        |          |                   |          | $\perp$    |          | $\perp$  |                 |  |      | -               | _             | -            |                 |  | $\vdash$   |               | :::::          |          | _    |                 |               | $\bot$                        | <u> </u>     |          | $\square$  |          |          |
| 28   78   128     29   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     47   97   147     48   148  |          | •  | -  |                        |          |                   |          |            |          |          |                 |  |      | $\vdash \vdash$ |               |              |                 |  | $\sqcup$   |               |                |          |      |                 |               |                               | ╀            |          |  | _        | _        |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   145     46   96   146     47   97   147     48   98   148  |          | <del>                                     </del>   |  |                        |          | $\longrightarrow$ |          | $\dashv$   | $\dashv$ |          | <b>—</b> :::::  |  |      |                 |               | <b></b>      |                 |  |  | $\dashv$      |                |          |      |                 |               | +                             | <u> </u>     |          |  |          | _        |
| 30   |          | -  |  |                        |          |                   | _        | _          | $\dashv$ | _        | :::::           | <u> </u>   |      |                 |               |              | -               |  | -  |               |                |          |      |                 |               | +-                            | -            |          | $\vdash$   |          |          |
| 31   81   131   132     32   132   132   133     33   133   133   133     34   84   134   134     35   86   135   135     36   86   136   137     38   88   138   139     40   90   140   140     41   91   141   141     42   92   142   142     43   93   143   144     44   94   144   144     45   96   146   147     48   98   148   148  |          | <del>†                                      </del> | -  |                        |          |                   | _        |            | +        |          | :::::           |  |      |                 |               | -∤           | -               | _  | <del>                                     </del> |               | ::::::         |          |      |                 |               | +-                            | -            | _        |  | _        |          |
| 32   82   132   133     33   83   133   134     34   84   134   134     35   85   135   135     36   86   136   137     38   88   138   138     39   89   139   139     40   90   140   41     41   91   141   41     42   92   142   142     43   93   143   144     44   94   144   144     45   95   145   146     47   97   147   147     48   98   148   148  |          |  |  | $\vdash$               |          |                   | $\dashv$ | $\dashv$   | $\dashv$ | +        |                 | <b></b>  |      |                 | $\dashv$      | —            |                 | - -  | +  |               | :::::          |          |      |                 |               | +                             | -            |          | $\vdash$   | _        | _        |
| 33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   44 94   45 96   47 97   48 98  |          | <del></del>  |  | $\vdash$               |          |                   |          | _          | $\dashv$ | -        | - ::::          |  |      |                 | -             |              | -               | _  |  |               | :::::          |          |      |                 |               |                               | -            | -        | $\vdash$   |          | $\dashv$ |
| 34   84   134   135     35   85   135   136     36   86   136   137     37   87   137   137     38   88   138   138     39   89   139   139     40   90   140   141     41   91   141   141     42   92   142   142     43   93   143   143     44   94   144   144     45   95   145   146     47   97   147   147     48   98   148   148  |          | <del></del>  |  | $\vdash$               |          |                   |          |            | -        | -        | _ :::::         |  |      | -               |               | +            |                 |  | +  |               |                |          |      |                 |               | +                             | -            |          |  |          |          |
| 35       85       135   <th></th> <td><del></del></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>+</td> <td>+</td> <td><math>\dashv</math></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>+ +</td> <td></td> <td>* * * * * *</td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>   |          | <del></del>  |  |                        |          |                   | -        | +          | +        | $\dashv$ |                 |  |      |                 | -             |              |                 | -  | + +  |               | * * * * * *    |          |      |                 |               | +                             |              |          | -  |          |          |
| 36   37   86   136   137     38   88   138   138     39   90   140   140     41   91   141   141     42   92   142   143     43   93   143   144     44   94   144   144     45   95   145   146     47   97   147   148   | -        |  |  |                        |          |                   |          |            |          |          |                 |  | -    |                 | _             |              | ┢               |  |  |               |                |          |      |                 |               | +                             | ╁╌           |          |  | -        |          |
| 37   87   137   138     38   88   138   138     39   90   140   140     41   91   141   141     42   92   142   143     43   93   143   144     44   94   144   144     45   95   145   146     47   97   147   148  | <b>—</b> |  | <del>                                     </del> | igwdap                 |          |                   |          | $\dashv$   | -        | -        | $\dashv$        |  |      |                 | $\dashv$      | +            | $\vdash$        |  | 1  |               | :::::          |          |      | $\vdash \vdash$ | $\dashv$      | +                             | ┼─           | $\vdash$ | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ |
| 38 88   39 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |          |  | $\vdash$   | H                      | $\dashv$ |                   | -        |            | +        | +        | -               |  |      |                 | +             |              | $\vdash \vdash$ |  | +  |               | :::::          | -        |      |                 |               | 1                             | +-           | $\vdash$ | <del>                                     </del> | $\dashv$ | $\dashv$ |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148  |          |  |  | $\vdash \vdash \vdash$ |          |                   |          | _          | +        | +        |                 |  |      |                 | +             |              | $\vdash$        |  | + +  | $\neg$        | :::::          |          |      |                 | <del> -</del> | -                             | +-           |          | $\vdash \vdash$                                  | $\dashv$ |          |
| 40   90   140     41   91   141     42   92   142     93   143     94   144     95   145     96   146     97   147     48   98   |          | <del></del>  |  |                        |          |                   |          | +          | +        | +        |                 |  |      | $\vdash$        | $\dashv$      | +            |                 | +  | + +  | 一             |                |          |      | $\vdash$        | -             | +                             | <del> </del> | $\vdash$ | $\vdash$   | $\dashv$ |          |
| 41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148  |          |  |  |                        |          |                   | +        | $\dashv$   | -        | +        | -               | -  |      |                 | $\dashv$      |              |                 |  | ╂  | $\dashv$      |                | <u> </u> |      | $\vdash$        | _             | +                             | +-           | $\vdash$ | $\vdash \vdash$                                  |          | $\dashv$ |
| 42   92   142   142   143     43   93   143   143   143     44   94   94   144   144   145     45   95   145   146   146   146     47   97   147   147   148   148   | -        |  |  | $\vdash$               | $\dashv$ |                   | $\dashv$ | -          | +        | +        | <b></b>         |  |      | $\vdash$        | <del>- </del> |              |                 |  | ┼─┼  |               |                | ļ        |      | <del></del>     | +             | 1                             | +            | $\vdash$ |  |          | $\dashv$ |
| 43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148  |          | +  |  |                        | $\dashv$ |                   | +        | _          | +        |          | - :::::         |  |      |                 |               | +            |                 |  | <del>                                     </del> |               |                |          |      | $\dashv$        |               | +                             |              |          |  |          | ㅓ        |
| 44   94   144     45   95   145     46   96   146     47   97   147     48   98   148  | -        |  |  |                        | _        |                   |          |            | +        | -        | <b></b>         |  |      |                 | $\dashv$      |              |                 | $\dashv$   | 1  | -             | ::::::         |          |      | $\vdash$        |               | +                             | -            |          |  |          | $\dashv$ |
| 45   95   145     46   96   146     47   97   147     48   98   148  |          |  |  |                        |          |                   |          | $\dashv$   | $\dashv$ |          | <b>-</b>        |  |      |                 |               | +            | +               | $\dashv$   | <del>   </del>                                   |               |                |          |      | $\vdash \dashv$ |               | +                             | +-           |          |  | ᆉ        | $\dashv$ |
| 46   96   146     47   97   147     48   98   148  |          |  |  |                        |          |                   | $\dashv$ |            |          | +        | <b>-</b>  ::::: |  |      |                 |               | 1            |                 |  |  |               |                |          |      | $\Box$          |               | 1                             | +            |          | $\Box$   | $\dashv$ | $\dashv$ |
| 47 97   48 98  |          |  |  |                        |          |                   |          |            | 1        | $\top$   | <b> </b>        |  |      |                 |               |              |                 | 1.   |  |               |                |          |      |                 |               | 1                             | 1            |          | +  | 寸        | $\dashv$ |
| 48 98 148 148  |          | · · · · · · · · · · · · · · · · · · ·              |  |                        |          |                   | 十        | $\top$     | $\top$   | $\top$   |                 |  |      |                 |               |              |                 |  |  |               |                |          | ,    |                 |               | 1                             | 1            |          |  | $\neg$   | $\dashv$ |
|  |          | -  |  |                        | 7        |                   | +        | 1          | 1        | _        |                 |  |      |                 | +             |              |                 | <del>                                     </del> | $\dagger$  |               |                |          |      |                 | _             | 1                             | †            | $\Box$   | $\Box$   | $\dashv$ |          |
|  |          | 49   |  |                        |          |                   | $\dashv$ |            |          |          |                 |  | 99   |                 |               |              |                 |  |  |               |                |          | 149  |                 | 1             |                               |              |          |  | _        | $\dashv$ |
| 50 100 150   |          |  |  |                        |          |                   |          |            |          |          |                 |  | -    |                 |               |              |                 |  |  |               | ::::: <b>!</b> |          | _    |                 |               | 1                             | 1            |          |  |          |          |